INDEX

ABRAHAM-SHRAUNER, B. *see* ROBERTS, D. A. and ABRAHAM-SHRAUNER, B.

ABURDZHANIYA, G. D., LAKHIN, V. P. and MIKHAILOVSKII, A. B. Nonlinear regular structures of drift magneto-acoustic waves, 373

AUER, G. *See* BEREZHIANI, V. I., TSKHAKAYA, D. D. and AUER, G.

BALL, L. T. Non-relativistic thermal effects on parallel-propagating ion cyclotron waves, 117

BEREZHIANI, V. I., TSKHAKAYA, D. D. and AUER, G. Some remarks on spontaneous magnetic field generation and the nonlinear dynamics of a Langmuir plasma, 139

BHARUTHRAM, R. and SHUKLA, P. K. Dynamics of kink instability in a non-uniform magnetoplasma, 309

BOARDMAN, A. D. *See* GROZEV, D., SHIVAROVA, A. and BOARDMAN, A. D.

BONNAUD, G. *See* LABAUNE, C., FABRE, E. and BONNAUD, G.

BRAVO-ORTEGA, A., SWANSON, D. G. and GLASSER, A. H. Asymptotic approximation for the dispersion relation of a hot magnetized plasma, 275

BRETZ, N. Geometrical effects in X-mode scattering, 79

CAIRNS, I. H. Fundamental plasma emission involving ion sound waves, 169

CAIRNS, I. H. Second harmonic plasma emission involving ion sound waves, 179

CAIRNS, I. H. Third and higher harmonic plasma emission due to Raman scattering, 199

FABRE, E. *See* LABAUNE, C., FABRE, E. and BONNAUD, G.

FAGHIHI, M. and SCHEFFEL, J. Stability of short-axial-wavelength internal kink modes of an anisotropic plasma, 495

GLASSER, A. H. *See* BRAVO-ORTEGA, A., SWANSON, D. G. and GLASSER, A. H.

GROVEZ, D., SHIVAROVA, A. and BOARDMAN, A. D. Envelope solitons of surface waves in a plasma column, 427

HAWKINS, L. C. *See* WELLS, D. R. and HAWKINS, L. C.

HITCHON, W. N. G. A plasma-optical system modelled using particles, 87

JORNA, S. and WOOD, L. Fokker-Planck calculations on heat flow in plasmas, 317

KARPMAN, V. I. and SHAGALOV, A. G. Nonlinear stage of the modulational instability of a whistler wave. Part 1, 155

KONO, M. and SANUKI, H. Ponderomotive force near cyclotron resonance, 43

KRSTIĆ, S. R. *See* MILIĆ, B. S. and KRSTIĆ, S. R.

KUO, S. P., LEE, M. C. and WOLFE, A. Spectral characteristics of hydromagnetic waves in the magnetosphere, 235

LABAUNE, C., FABRE, E. and BONNAUD, G. Observation of three-half harmonic radiation from plasmas irradiated by a 0·26 μm wavelength laser, 445

LAKHIN, V. P. *See* ABURDZHANIYA, G. D., LAKHIN, V. P. and MIKHAILOVSKII, A. B.

LAKHIN, V. P., MAKURIN, S. V., MIKHAILOVSKII, A. B. and ONISHCHENKO, O. G. Dispersion ion-drift hydrodynamics, 387

LAKHIN, V. P., MAKURIN, S. V., MIKHAILOVSKII, A. B. and ONISHCHENKO, O. G. Vortices of ion-drift and related waves, 407

LAM, S. H. *See* MAIN, G. L. and LAM, S. H.

LEE, M. C. *See* KUO, S. P., LEE, M. C. and WOLFE, A.

MAHAJAN, S. M. *See* RIYOPOULOS, S. and MAHAJAN, S. M.

MAIN, G. L. and LAM, S. H. A general solution condition for collisionless sheaths, 287

MAKURIN, S. V. *See* LAKHIN, V. P., MAKURIN, S. V., MIKHAILOVSKII, A. B. and ONISHCHENKO, O. G.

MELROSE, D. B. Temporal evolution of reactive and resistive nonlinear instabilities, 473

MIKHAILOVSKII, A. B. *See* ABURDZHANIYA, G. D., LAKHIN, V. P. and MIKHAILOVSKII, A. B.

MIKHAILOVSKII, A. B. *See* LAKHIN, V. P., MAKURIN, S. V., MIKHAILOVSKII, A. B. and ONISHCHENKO, O. G.

MILIĆ, B. S. and KRSTIĆ, S. R. On the theory of electromagnetic waves and instabilities in multi-species weakly ionized plasmas in external d.c. electric field, 53

MILIĆ, B. S. *See* ŽIGMAN, V. J. and MILIĆ, B. S.

MJØLHUS, E. Generalized Budden resonance tunnelling, with application to linear conversion nearly parallel to magnetic field, 1

NAKAMURA, T. and YAMAMOTO, T. Probability-maximization theory for a highly turbulent beam–plasma system, 483

NAKAMURA, Y. Observations of large-amplitude ion acoustic solitary waves in a plasma, 461

NEJOH, Y. A two-dimensional ion acoustic solitary wave in a weakly relativistic plasma, 439

ØIEN, A. H. On steady-state classical transport in collision-dominated toroidal systems, 245

ØIEN, A. H. Kinetic and transport theory for a non-neutral plasma taking account of strong gyration and non-uniformities on the collisional scale, 351

ONISHCHENKO, O. G. *See* LAKHIN, V. P., MAKURIN, S. V., MIKHAILOVSKII, A. B. and ONISHCHENKO, O. G.

RIYOPOULOS, S. and MAHAJAN, S. M. Effect of toroidicity during lower-hybrid mode conversion, 27

RIZK, H. M. Toroidal plasma configuration with anisotropic pressure, 209

ROBERTS, D. A. and ABRAHAM-SHRAUNER, B. Particle paths and phase plane for time-dependent similarity solutions of the one-dimensional Vlasov–Maxwell equations, 335

SALEEM, H. Nonlinear excitation of slow shear Alfvén mode by electromagnetic waves, 453

SANUKI, H. *See* KONO, M. and SANUKI, H.

SAZHIN, S. S. A physical model of parallel whistler-mode propagation in a weakly relativistic plasma, 301

SCHEFFEL, J. *See* FAGHIHI, M. and SCHEFFEL, J.

SHAGALOV, A. G. *See* KARPMAN, V. I. and SHAGALOV, A. G.

SHIVAROVA, A. *See* GROZEV, D., SHIVAROVA, A. and BOARDMAN, A. D.

SHUKLA, P. K. *See* BHARUTHRAM, R. and SHUKLA, P. K.

STUBBE, P. A new collisional relaxation model for small deviations from equilibrium, 95

SWANSON, D. G. *See* BRAVO-ORTEGA, A., SWANSON, D. G. and GLASSER, A. H.

TSKHAKAYA, D. D. *See* BEREZHIANI, V. I., TSKHAKAYA, D. D. and AUER, G.

WELLS, D. R. and HAWKINS, L. C. Containment forces in low energy states of plasmoids, 263

WOLFE, A. *See* KUO, S. P., LEE, M. C. and WOLFE, A.

WOOD, L. *See* JORNA, S. and WOOD, L.

YAMAMOTO, T. *See* NAKAMURA, T. and YAMAMOTO, T.

ŽIGMAN, V. J. and MILIĆ, B. S. Kinetic theory of the high-frequency part of the slow electromagnetic mode in weakly ionized gas-discharge argon plasma with inelastic collisions, 223